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PATENT APPLN. NO. 10/809,875
RESPONSE UNDER 37 C.F.R. § 1.116

PATENT
FINAL

IN THE CLAIMS:

1. (currently amended) A non-aqueous electrolyte battery comprising a positive electrode, a negative electrode, non-aqueous electrolyte and a separator,

wherein an active material of the positive electrode includes lithium manganese oxide; said separator is ~~at least partially made of~~ comprises polypropylene or polyethylene; the shut-down temperature of said separator is 162°C or less; and the area contraction ratio of said separator at 120°C is 15% or less.

2. (original) The non-aqueous electrolyte battery according to Claim 1, wherein said active material of the positive electrode is a mixture of lithium manganese oxide and lithium cobalt oxide or a mixture of lithium manganese oxide and a lithium-nickel complex oxide.

3. (original) The non-aqueous electrolyte battery according to Claim 2, wherein the ratio of lithium cobalt oxide or the lithium-nickel complex oxide in said active material of the positive electrode is 10 wt.% to 90 wt.%.

4. (original) The non-aqueous electrolyte battery according to Claim 1, wherein said non-aqueous electrolyte battery has a capacity of 1500 mAh or higher.

5. (currently amended) A non-aqueous electrolyte battery having a positive electrode, a negative electrode, non-aqueous electrolyte and a separator,

wherein an active material of the positive electrode includes lithium manganese oxide; said separator is at least partially made of comprises polypropylene or polyethylene; the shut-down temperature of said separator is 162°C or lower; and the difference between the film-breaking temperature and the shut-down temperature is 20°C or higher at the time when the temperature rises at 15°C/min. (wherein the film breaking temperature > the shut-down temperature).

6. (original) The non-aqueous electrolyte battery according to Claim 5, wherein said active material of the positive electrode is a mixture of lithium manganese oxide and lithium cobalt oxide or a mixture of lithium manganese oxide and a lithium-nickel complex oxide.

7. (original) The non-aqueous electrolyte battery according to Claim 6, wherein the ratio of lithium cobalt oxide, or of the lithium-nickel complex oxide, in said active material of the positive electrode is 10 wt.% to 90 wt.%.

8. (original) The non-aqueous electrolyte battery according to Claim 5, wherein said separator has a cross-linked structure.

9. (original) The non-aqueous electrolyte battery according to Claim 5, wherein said non-aqueous electrolyte battery has a capacity of 1500 mAh or higher.